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Tuesday, 7/1/2008 2:34:11 PM Kim Johnston User: **Process Sheet** : TUBE ASSEMBLY : CU-DAR001 Dart Helicopters Services **Drawing Name** Customer Job Number : 10426 **Estimate Number** : D3304044 Part Number P.O. Number D3304 REV. B Drawing Number : 7/1/2008 S.O. No. : This Issue : N/A : NĆ Project Number Prsht Rev. : MACHINED PARTS : B : // **Drawing Revision** Type First Issue : 29196 Material ** **Previous Run** : 7/28/2008 Due Date Written By Checked & Approved By 04/11.26 KJ/JLM Revised Steps 7 Comment **Additional Product** Job Number: Description: Seq. #: M304TR0875W065 SS TUBING 1.0 M16258 X1 Comment: Qty.: 1.9469 f(s)/Unit Total: 7.7876 f(s) Material: AISI 304/316 SS tubing 0.875" x 0.065" wall * Batch: (M304TR0.875W.065) Comment: HARDINGE CNC LATRE SMALL 1- Cut blank: 22.00" as per Dwg D3304 2- Turn as per Folio FA458 and Dwg D3304 3- Deburr INSPECT PARTS AS THEY COME OFF MACHINE 3.0 QC2 Comment: INSPECT PARTS AS THEY COME OFF MACHINE 4.0 QC8 Comment: SECOND CHECK 5.0 SMALL FAB 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1- Drill as per Dwg D3304 using drill Jig D3304-T1 2- Form as per Dwg D3304 3- Cut tube to length as per Dwg D3304 4-Check with DT8657 JIG 4- Deburr

Page 1

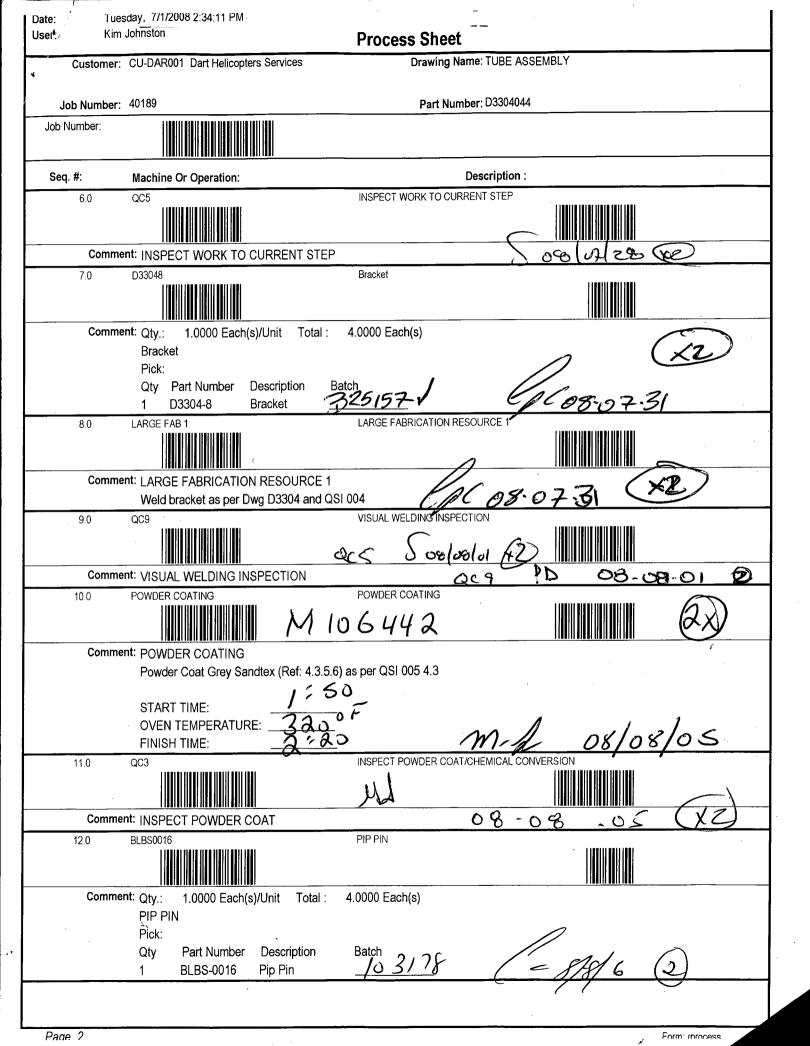
Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No: _	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C	Closed:	Date:
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		Section A			Sign & Date	Sign & Section C		
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NOTE: Date & initial all entries



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Part No	:	PAR #: Fault Category: No	CR: Yes	No DQ	\ :	_ Date: _	

QA: N/C Closed: ____ Date: _

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
		•						
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NOTE: Date & initial all entries

Tuesday, 7/1/2008 2:34:11 PM Date: Kim Johnston User: **Process Sheet** Drawing Name: TUBE ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 40189 Part Number: D3304044 Job Number: Description: Seq. #: Machine Or Operation: 13.0 CBL460 Loop Sleeve 8.0000 Each(s) Total: Comment: Qty.: 2.0000 Each(s)/Unit Loop Sleeve Pick: Qty Part Number Description Loop Sleeve 2 CBL-460 CBL1240 14.0 Total: 4.1664 f(s) Comment: Qty.: 1.0416 f(s)/Unit Cable Pick: Qty Part Number Description 12.5" CBL-1240 Cable 15.0 SMALL FAB 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble lanyard and pip pin as per Dwg D3304 Identify as D3304-044 INSPECT WORK TO CURRENT STEP 16.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 17.0 Comment: PACKAGING RESOURCE #1 Identify with PAN and B/N as per Dwg using a permanent fine point marker, then Stock Location: FINAL INSPECTION/W/O RELEASE 18.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

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	WORK ORDER CH	IANGES				
STEP				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No: 53301-3 PAR #: NA Fault Category: Prod FDR POS NCR: Yes No DQA: Date: 5868108

QA: N/C Closed: D Date: 08/09/08

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector		
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DART AEROSPACE LTD	Work Order:	40189
Description: Tube Assembly	Part Number:	D3304-3
Inspection Dwg: D3304 Rev: B		Page 1 of 1

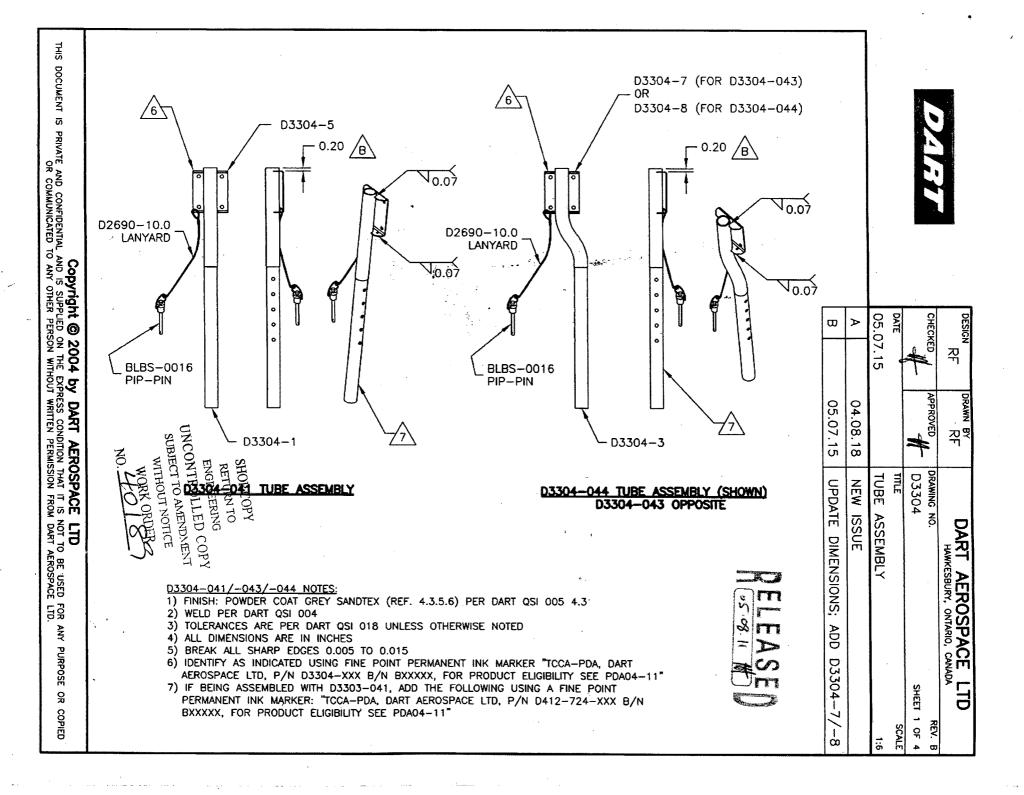
FIRST ARTICLE INSPECTION CHECKLIST

X First Article	Prototype
A 4 1	

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
9.25	+/-0.030	9,257"				
Ø0.840	+/-0.010	\$,842"				
Ø0.875	+/-0.010	0,874"				
0.065	+/-0.010	1066"				
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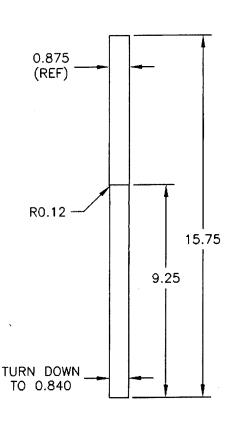
Measured by: T.F.	Audited by:	Prototype Approval:	N/A
Date: 08/07/17	Date: 08/07/14	Date:	N/A

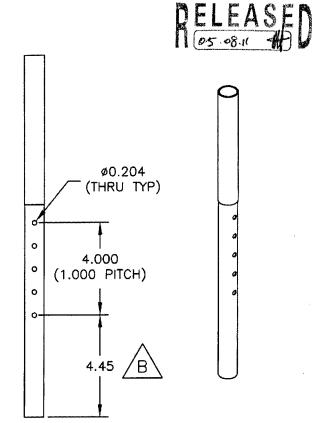
Rev	Date	Change		Revised by	Approved
Α	04.09.08	New Issue	P/O D3304-043/-044	KJ/JLM 1.A	1
В	06.03.09	Dwg Rev updated		KJ/JLM	





DESIGN RF	DRAWN BY RF	DART AEROSPAC HAWKESBURY, ONTARIO, O	
CHECKED	APPROVED #	drawing no. D3304	REV. B SHEET 2 OF 4
DATE		TITLE	SCALE
05.07.15		TUBE ASSEMBLY	1:4





D3304-1 TUBE

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COL SUBJECT TO AMENDMENT WITHOUT NOTICE

D3304-1 NOTES:

1) MATERIAL: AISI 304/316 STAINLESS STEEL TUBE Ø0.875 x 0.065 WALL

(REF. DART SPEC M304TRO.875W.065) ENSURE SEAMLESS TUBE IS USED

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

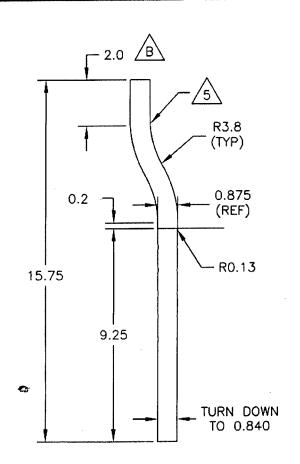
4) BREAK ALL SHARP EDGES 0.005 TO 0.015

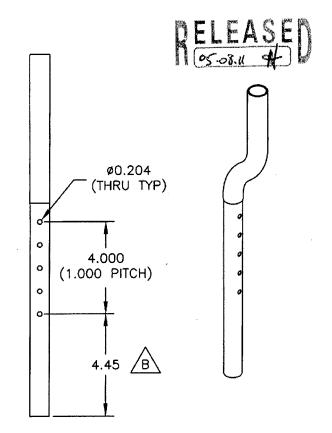
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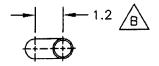
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DESIGN DRAWN BY RF		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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DATE	1	TITLE	SCALE
05.07.15		TUBE ASSEMBLY	1:4







D3304-3 TUBE

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER

NO.

D3304-3 NOTES:

1) MATERIAL: AISI 304/316 STAINLESS STEEL TUBE \$0.875 x 0.065 WALL

(REF. DART SPEC M304TRO.875W.065) ENSURE SEAMLESS TUBE IS USED

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

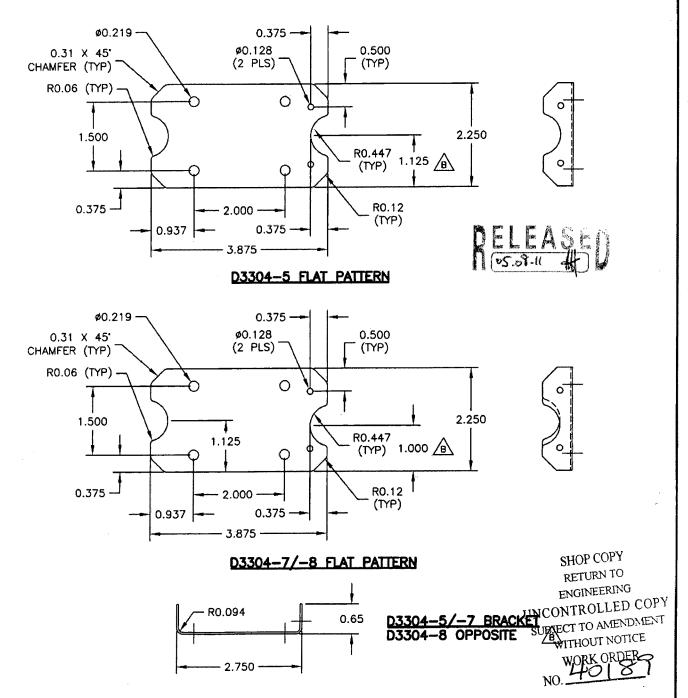
5) BEND LINES 9.625, 13.375 DIMENSIONS

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DESIGN RF	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED #	APPROVED	DRAWING NO.	REV. B	
#	1	D3304	SHEET 4 OF 4	
DATE		TITLE	SCALE	
05.07.15		TUBE ASSEMBLY	1:2	



NOTES:

- 1) MATERIAL: AISI 304/316 SS 0.040 THICK SHEET (REF. DART SPEC M304S20GA)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015

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